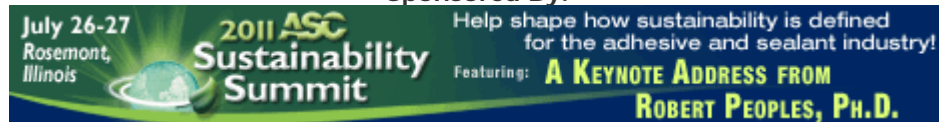


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July 26-27
Rosemont,
Illinois

2011 ASC
Sustainability
Summit

Help shape how sustainability is defined
for the adhesive and sealant industry!

Featuring: **A KEYNOTE ADDRESS FROM
ROBERT PEOPLES, Ph.D.**

Welcome to the Adhesive and Sealant Council's *ASC e-Catalyst*

ASC e-Catalyst delivers the latest ASC news, industry information and end-user trends—right to your Inbox. Look for it on the 1st Tuesday of each month.

ASC e-Catalyst is a great resource for the industry! Help us continue to reach the design-engineering community by telling others about this great resource. Like you they'll benefit from the latest industry applications, technological developments, resources and educational opportunities. Sharing the knowledge is easy! CLICK ON the "Send to a Colleague" button on the right.

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ASC News

Dynamic Keynote Speakers at the 2011 Sustainability Summit in July

The 2011 Sustainability Summit (July 26-27 in Chicago) will feature industry expert keynote speakers & panelists.

FEATURED Keynote Speaker:

Dr. Robert Peoples, Director American Chemical Society Green Chemistry Institute

Dr. Peoples will be discussing the macro drives of change and offer real world examples where green chemistry and engineering have been implemented.

Global trends are sending a clear signal: we cannot achieve a sustainable future by the linear extension of existing technologies. This conclusion is driven by the demands of developing nations and population growth. The logical questions are: what can we do differently and how do we do it?

Dr. Hermann Onusseit

Representing FEICA (Fédération Européenne des Industries de Colles et Adhésifs – the Association of

European Adhesive and Sealant Industry and their national trade associations.)

Dr. Onusseit will be discussing the European regulatory situation related to sustainability. Included in this discussion will be an update on standardization activities related to air quality and LCAs and EPDs as well as an overview of Green Public Procurement initiatives and the EU Ecolabel. A comparison of approaches in the EU versus the U.S. will also be covered including the differences of biobased in the EU and the U.S. Additionally, FEICA strategy on sustainability for adhesives and sealants, focusing on the performance of our products and the overall environmental and societal benefit are included.

Richard C. (Rik) Master, AIA – USG Corporation

Rik will be discussing the transformation of material science as it relates to the evolving concern and knowledge of how building materials affect the health, wellbeing, and productivity of occupants. As the science of testing materials evolves and improves, so increases the request for better products and regulations against emissions and trace elements. How will that affect current manufacturing methods and current products? What will be required in the future from product manufacturers and how should you prepare for the future requirements of Sustainable Guidelines or Regulations? "Green" is a term with no definition and overly used! We need to move beyond single attribute advertising and miss-use of vague terms. The establishment of 'Environmental nutrition labeling' is needed as a method of listing attributes of all materials/products using the same documented test methods, sample rates, and installation methods for better education of end users.

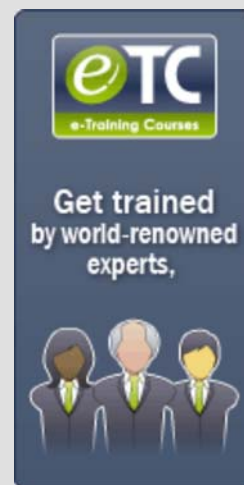
June 2011


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2011 EDITION
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experts,


Other featured panelists include:

Tom Rolando, Wisdom Adhesives

Topic: The industry faces challenges with metrics and definitions for Green Chemistry. The Wisdom Greenbond Sustainable Adhesives Scorecard will be presented and discussed as a new method for measuring at the product level. This internal scorecard grades the environmental friendliness of products and provides the "line in the sand" for measuring the sustainability of adhesive product properties.

George Pavlovic, Bayer Material Science

Topic: Using a Life Cycle Assessment (LCA) approach is essential in making balanced and informed decisions on the Sustainability of materials used in the transportation and other market segments. Examples and perspectives on how the holistic LCA approach is useful for sound decision making will be shared.

Jeff Smith, HB Fuller

Topic: Developing advanced packaging adhesives that enable customers' sustainability initiatives as well as helping reduce energy consumption, increase mileage, and enable the use of green solutions.

Rich Engler, EPA

Topic: EPA initiatives on green chemistry and examples of green chemistry technologies in the adhesives sector; opportunities during new chemicals reporting under TSCA.

Nate Tortorella, John Deere

Topic: Integrating sustainability into the product development and production process.

Ken Yarosh, Dow Corning

Topic: Dow Corning's perspective on Sustainability Opportunities/Challenges in the marketplace, the value proposition of Green Chemistry while not neglecting key physical performance properties when formulating.

This event will bring together adhesive and sealant professionals from stakeholders, standards and specs experts and end user companies to provide the industry with a "voice" on green terminology, chemistry, and sustainability positioning in our market!

Make plans **TODAY** to be a part of the "green" revolution and attend this important meeting!

[Learn More or Register](#) for the 2011 ASC Sustainability Summit.

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ASC's long awaited North American Market Report & Asia Supplement NOW AVAILABLE

Expanded Study Includes:

Market data and analysis on adhesives and sealants for North America, Europe (all 27 EU members), the Far East, Latin America and Rest of World gathered with our exclusive direct interviews with leading industry companies and experts

Market share and forecasted growth rate information on adhesives and sealants, broken down by technology and end-use application

A NEW section showing exclusive regional and country summaries

Special Price available to members!

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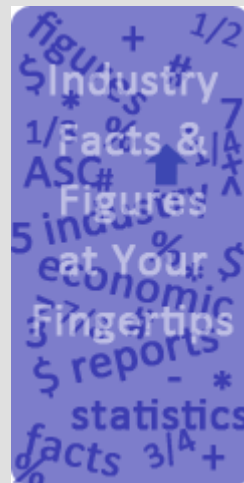
For questions about this report or its contents, please contact Steve Duren at (301) 986-9700 ext. 105.

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- * Global Site License: \$2250 member / \$3375 non-member



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Upcoming Events

ASC Sustainability Summit
 date: 07/26/11 – 07/27/11
 location: Rosemont, IL

2011 Fall Convention
 date: 10/16/11 – 10/18/11
 location: Indianapolis, IN

ASC 2011 Fall Convention CALL FOR SPEAKERS – Share Your Knowledge and Ideas. Registration NOW OPEN

Share Your Knowledge and Ideas
Make Our Industry a Strong Competitor in the Global Marketplace!

The Adhesive & Sealant Council (ASC) invites you to submit a presentation proposal (abstract) for inclusion in the program for the ASC 2011 Fall Convention – October 16-18, 2011 in Indianapolis, Indiana.

*Abstracts must be submitted online by Friday, June 10, 2011

All timely subject matter and topics relevant to the adhesive and sealant industry will be considered. Listed below are just a few of the many topic areas of interest to the industry:

- Business Development/Market Trends
- Raw Material Development (Expert Analysis)
- DIY Markets with Adhesives
- Energy Focus
- Green Chemistry
- Government Relations
- End Users Focus

DOWNLOAD the prospectus for a complete list of topics and submission requirements.

SUBMIT a proposal online

For additional information please contact:
Steve Duren
(301) 986-9700 ext. 105
Email: Steve.Duren@ascouncil.org

2011 ASC EXPO - over 50% SOLD OUT

Want to showcase your products and services to **BUYERS** and **DECISION MAKERS** in the Adhesive & Sealant Industry?

Exhibit at ASC's **Fall EXPO** on October 17th.
But don't wait! Over half of booth space has already been sold.

RESERVE YOUR BOOTH today!

Attendees:

CLICK for more information or to register for this year's Fall Convention & EXPO in Indianapolis October 16-18, 2011.

ASC Pavilions Offer Your Best Entry to Large Market Trade Shows...grab your spot today.

What Are Adhesive and Sealant Pavilions?
Adhesive and Sealant Pavilions are 800 to 2,000 square foot pavilions within larger, established trade show events that are focused on strong existing markets or emerging markets for adhesives and sealants.

Why Has the ASC Created Adhesive and Sealant Pavilions?
By partnering with well-established, larger trade shows that draw thousands of attendees from end-user market segments, the ASC can help its members sell to existing and emerging markets—often at a lower price and better booth position than when members exhibit alone.

The trade show pavilion concept supports the ASC's mission to continually "Build the Industry" and is a new, exclusive benefit to its members.

What's in it For ASC Members?

- Better placement on the EXPO hall floor.
- Priority booth selection and pricing discounts.
- Differentiate the A&S industry against other fastening and sealing options.
- Pavilion involvement helps customers find solutions easily in a large show.

PSA Short Course
at the ASC 2011 Fall Convention
date: 10/16/11 – 10/17/11
location: Indianapolis, IN

Omnexus4Adhesives Webinar
date: 06/09/2011
time: 10:00 a.m. (ET)
topic: Surface Analysis in Practice to Improve Adhesions

Omnexus4Adhesives Webinar
date: 06/22/2011
time: 10:00 a.m. (ET)
topic: PU Adhesives Formulation (Advanced)

Omnexus4Adhesives Webinar
date: 06/29/2011
time: 10:00 a.m. (ET)
topic: Packaging Adhesives Formulation: Improving barrier performance

Export Symposium
date: 11/09/11 – 11/10/11
location: Rosemont, IL

The Adhesive and Sealant Council (ASC) is a North American trade association dedicated to representing the adhesive and sealant industry. The Council is comprised of 114 adhesive and sealant manufacturers, raw material and equipment suppliers, distributors and industry consultants, representing more than 75% of the U.S. industry with operations around the world. Offering education, legislative advocacy, professional networking and business growth solutions for its members, the ASC is the center of knowledge and catalyst for industry growth on a global basis for manufacturers, suppliers and end users. For more information about ASC, visit www.ascouncil.org.

For More Information
Contact:
[The Adhesive and Sealant Council](#)
7101 Wisconsin Avenue, Suite 990
Bethesda, Maryland 20814
Phone: (301) 986-9700
info@ascouncil.org

- Easy way to “test drive” a new show/market before committing substantial resources.

When and Where are Upcoming Adhesive & Sealant Pavilions?

Join Us at **Composites 2012** (Click for more info)

February 21-23, 2012 in Las Vegas

- 3,000 domestic and international attendees representing Aerospace, Architectural, Automotive, Civil Structure, Construction, Corrosion, Energy, Kitchen & Bath, Marine, Mass Transportation, Military, Sports & Leisure, Truck/RV
- Growing industry segment that leverages adhesives and sealants
- Prominent placement on the floor to maximize exposure to prospects
- Discounted booth space
- 87% of attendees are DECISION MAKERS

Join Us at **NPE 2012** (The International Plastics Showcase) (Click for more info)

April 1-5, 2012 in Orlando

- 45,000 domestic and international attendees representing nearly 20,000 companies in Aerospace, Agriculture, Bags, Wraps & liners, Business Machines, Environmental Protection, Fasteners, Footwear, Furniture, Gears, Glazing, Housewares, Lawn & Garden, Luggage, Marine Products, and much more.
- Single largest, best-attended plastics oriented event serving the Western Hemisphere
- Prominent placement on the floor to maximize exposure to prospects
- Discounted booth space
- 65%+ of attendees are DECISION MAKERS

CLICK for more information.

Secure your space NOW in upcoming Adhesive and Sealant Pavilions!

Contact Malinda Armstrong at
malinda.armstrong@ascouncil.org
or (301) 986-9700 ext. 106

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NEW informative e-Training Courses Now Available to the Adhesives & Sealants Industry from ASC!

ASC and its educational partner, **Omnexus4Adhesives**, offer several outstanding technical webinars. These convenient webinars are the PERFECT way to enhance your adhesive and sealant knowledge.

Take advantage of these new sessions being offered in JUNE...

June 9: Surface Analysis in Practice to Improve Adhesions

June 22: PU Adhesives Formulation (Advanced)

June 29: Packaging Adhesives Formulation: Improving barrier performance

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Edge Adhesives Announces Add-on Acquisition of Rubex; Appointment of New President and CEO

Edge Adhesives, a Fort Worth based manufacturer of specialty materials, announced the add-on acquisition of Rubex, Inc. The transaction was completed with Edge Adhesives capital partner, Superior Capital Partners LLC, a Detroit-based private equity firm. Edge Adhesives acquired Rubex from Chemence Inc, a diversified chemicals company with operations in the United States and United Kingdom.

Based in Columbus, Ohio, Rubex is a manufacturer of engineered butyl mastics, converted tapes and sealants that are used in electrical, automotive, construction, and industrial applications. The Rubex acquisition expands Edge's end markets, manufacturing capacity and portfolio of high performance adhesives and sealants.

Edge Adhesives also recently named Dave Burger as its President and Chief Executive Officer. Dave is a 25-year veteran of the adhesives and sealants industry and former Board Chair of the Adhesives & Sealants Council. Dave noted, "I am extremely excited to lead Edge Adhesives and Rubex. The partnership between Edge and Rubex creates a more diverse and substantial

player in the industry with complementary manufacturing locations in Ohio and Texas. The combined company possesses several unique formulations and adhesive technologies that offer performance and environmental benefits that are among the best in the industry."

Scott Hauncher, Superior's Managing Director, commented, "This is a highly-complementary add-on acquisition for Edge Adhesives. Rubex brings identified growth opportunities that can be pursued with Edge's leadership, sales and product development support. The combined company will execute on these growth opportunities and seek to grow through additional acquisitions in the industry."

Edge Adhesives is a manufacturer of proprietary butyl and specialty hot melt products used in the construction and industrial markets for sealing, bonding and environmental protection. It markets a wide range of extruded tapes, coated films and hot melt adhesives to end users and under private label. Edge has a 30-year tradition of promoting environmental sustainability through both its manufacturing practices and its product benefits.

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Industry News

Dow Completes New Wind Blade Adhesives Plant in Georgia

CompositesWorld.com (05/31/11)

Dow Formulated Systems, a unit of Dow Chemical, has announced the completion of a new wind blade epoxy adhesives production plant in Roberta, Ga. The plant, which includes a new reactor and production equipment, is fully dedicated to the wind sector and will be used to support the U.S. market, as well as exports to China and Latin America. The plant is located at Dow's existing Roberta facilities, and should be fully operational by July 1. Jean-Luc Guillaume, global business leader for wind energy for Dow Formulated Systems, said, "this investment demonstrates our strong commitment to the wind energy industry in North America and throughout the world." Guillaume added, "Epoxy adhesives play a critical role in the fabrication, performance and durability of wind turbine blades where large substructures are bonded together to create the finished blades. Specialized properties are needed for adhesive mixing and application during the fabrication process and cured adhesives must exhibit high levels of toughness and durability to withstand the extreme loads a wind turbine blade is subjected to throughout its service life. Dow Formulated Systems continues to develop new adhesive systems to support advances in wind blade design, including the trend toward larger blades produced using technology that delivers weight-savings without loss of strength. The addition of our new U.S. plant helps ensure that, as new adhesives are commercialized, the volume requirements of wind blade customers are met."

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Ashland to Acquire International Specialty Products Inc.

PRNewswire (05/31/11)

Ashland is acquiring International Specialty Products (ISP) for approximately \$3.2 billion. Ashland Chairman and CEO James J. O'Brien said, "This defining transaction enables us to significantly expand our market positions in higher margin, higher growth and less cyclical global markets like personal care and pharmaceuticals. It broadens Ashland's presence within attractive growth areas like skin, hair and oral care, which are large and fast-growing segments of the \$5-billion-plus personal care specialty ingredients market. In addition, we expect to more than double the size of our highest-margin functional ingredients business." ISP President and CEO Sunil Kumar said, "We are very enthusiastic about the opportunity to combine ISP with Ashland. Both companies have a strong commitment to serving customers with innovative solutions and technologies. We appreciate Ashland's passion for this business and we believe this combination offers tremendous potential for our customers, key business partners and employees."

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Dow Corning Names President Hansen as New CEO

Associated Press (05/03/11)

Dow Corning has named its president, Robert D. Hansen, as its new CEO, replacing Stephanie A. Burns. Hansen has been with Dow Corning for 29 years.

He's been president since November 2010. Burns, who has been with the company for 28 years, will remain chairman. She has been a member of Dow Corning's board since 2001 and became president in 2003 and CEO in 2004. She was elected chairman in January 2006.

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Bayer MaterialScience to Invest US\$120 Million in Texas plant

Pittsburgh Business Times (05/03/11) Spencer, Malia

Bayer MaterialScience is investing roughly \$120 million in its Baytown, Texas, chemical manufacturing site. The plant makes Methylene diphenyl diisocyanate (MDI) and Toluene diisocyanate (TDI) as well as polycarbonate. "These comprehensive upgrades will support the growth we are anticipating in the NAFTA region," said Greg Babe, president and CEO of Bayer Corp. and Bayer MaterialScience, in a written statement.

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H.B. Fuller Opens Adhesive Plant in Nanjing, China

Xinhua News Agency (China) (05/18/11)

H.B. Fuller has announced the official opening of its adhesive producing plant in Nanjing, capital city of east China's Jiangsu province. The new plant is the first multinational reactive adhesives plant in China and is located in the Nanjing Chemical Industrial Park. The facility, with a capacity of over 10,000 tonnes per year, will produce urethanes and other reactive chemistries for customers in the construction, filter, flexible packaging, solar, textile, window and woodworking markets. H.B. Fuller entered China in 1976. At present, it has a technical center in Shanghai, a branch and production facility in Guangzhou. In 2010, its products produced and sold in China exceeded US\$13 million.

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Dow Epoxy Expands Manufacturing Capacity in Germany

CompositesWorld.com (05/09/11)

Dow Epoxy, a unit of Dow Chemical, has announced plans to expand its liquid epoxy resin (LER) capacity at its plant in Stade, Germany. This expansion will provide additional capacity as early as the fourth quarter 2012 and will increase capacity by 30 KTA, a 10 percent increase in the company's global LER capacity. The new capacity will be used to keep pace with expected market growth in specialty applications, while also supporting geographic growth throughout Europe, the Middle East, China, and India. "Dow is committed to the epoxy business and to supporting growth with our global strategic customers," says Kevin Dillan, global business director at Dow Epoxy. "This investment will provide us with reliable supply of epoxy resin from a world-class manufacturing facility."

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End-User Perspectives

Gaining Muscle From Mussels: High-Strength CNT Composite Fibres

Materials Views (05/10/2011) Hermant, Marie-Claire

The mechanical properties of carbon nanotubes (CNT) have been praised as the next generation super-strength fiber material, with promises of nano-sized carbon structures that could be used to create the world's strongest cables, fibers, and fabrics. Currently, most CNT fibers are made through a spinning process, but spun fibers have to undergo a twisting and post-spinning densification process to improve mechanical properties. Researchers at the KAIST Institute in South Korea have changed the preparation process by adding an infiltration step to introduce polymeric cross-linking molecules. Catechol-containing adhesive polymers, inspired by mussels, are suspended in methanol and absorbed into the twisted CNT-cable and cross-linked in a following step. The adhesive polymers copy proteins found in the adhesive foot of marine mussels. These molecules exhibit cross-linking through chemical reactions between the catechol and amine groups in the proteins, as well as metal-coordination. The improvements obtained through the mussel-inspired adhesives are rather commendable, particularly when the scalability of fiber preparation is considered. Furthermore, even higher strengths could be obtained through this process following additional modification of the cross-linker molecules.

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Stacking Is in Demand

EMT WorldWide (05/06/2011)

Thanks to new surface coatings based on nanoparticles, and the newest adhesive procedures, embedding technologies are advancing into new dimensions, and a new research project called MANOS is actively pursuing stacking. MANOS, short for Modular Design of Systems with nanomodified Surfaces for Automotive and Industrial Sensor Technology, involves eight companies working to develop modular sensor systems, with the goal of meeting the standards of future products for increased functionality and greater robustness. Nanostructured and nanomodified surface coatings will help create new fasten and release technologies based on circuit boards, resulting in new paths for innovative modular system designs. The modular structure allows users to connect conventional sensors with each other using standardized interfaces, and combine them to create new sensor systems. This modular, multi-sensor design provides an excellent alternative to isolated applications, and allow for much shorter innovation cycles. These designs could be used in a variety of applications, including automotive or industrial sensory systems, and possible medical technology.

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